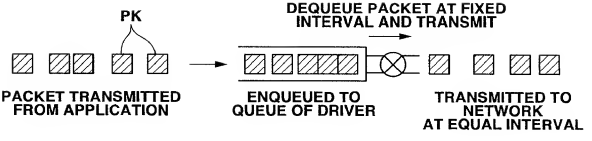
PK
DEQUEUE PACKET AT FIXED INTERVAL AND TRANSMIT
PACKET TRANSMITTED FROM APPLICATION
ENQUEUED TO QUEUE OF DRIVER
TRANSMITTED TO NETWORK AT EQUAL INTERVAL

FIG.1

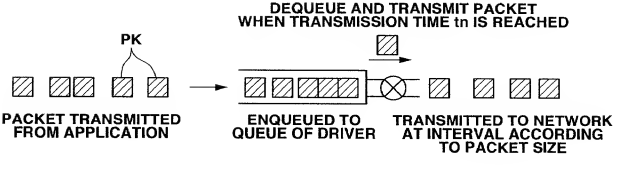
DEQUEUE AND TRANSMIT PACKET WHEN TRANSMISSION TIME tn IS REACHED
PK
PACKET TRANSMITTED FROM APPLICATION
ENQUEUED TO QUEUE OF DRIVER
TRANSMITTED TO NETWORK AT INTERVAL ACCORDING TO PACKET SIZE

FIG.2

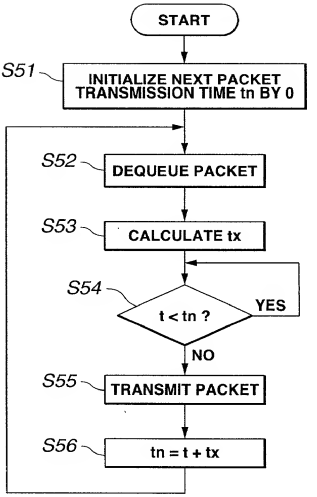
START
S51
INITIALIZE NEXT PACKET TRANSMISSION TIME tn BY 0
S52
DEQUEUE PACKET
S53
CALCULATE tx
S54
t < tn ?
YES
NO
S55
TRANSMIT PACKET
S56
tn = t + tx

FIG.3

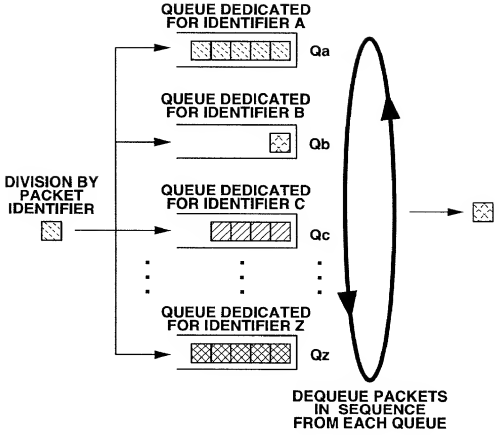

FIG.4

Version	HLength	Type Of Service	Total Length	
identification			flag	Fragment Offset
Time To Live		Protocol	Header Checksum	
Source IP Address				
Destination IP Address				
Source Port Number			Destination Port Number	

FIG.5

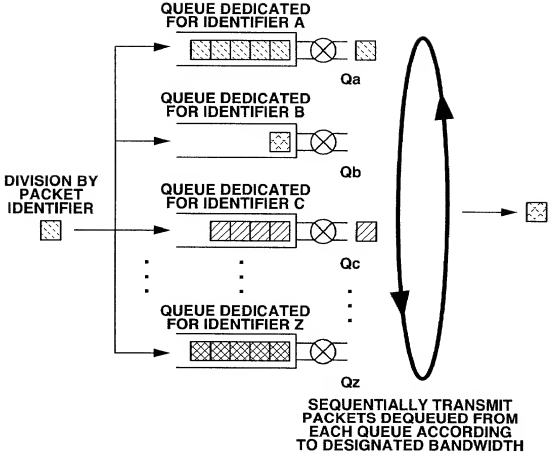
QUEUE DEDICATED FOR IDENTIFIER A
Qa
QUEUE DEDICATED FOR IDENTIFIER B
Qb
DIVISION BY PACKET IDENTIFIER
QUEUE DEDICATED FOR IDENTIFIER C
Qc
QUEUE DEDICATED FOR IDENTIFIER Z
Qz
SEQUENTIALLY TRANSMIT PACKETS DEQUEUED FROM EACH QUEUE ACCORDING TO DESIGNATED BANDWIDTH

FIG.6

09764885 .011704

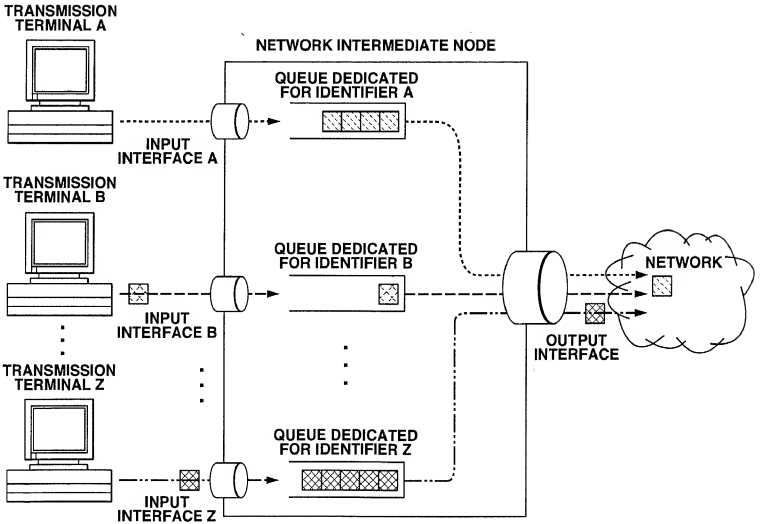

FIG.7

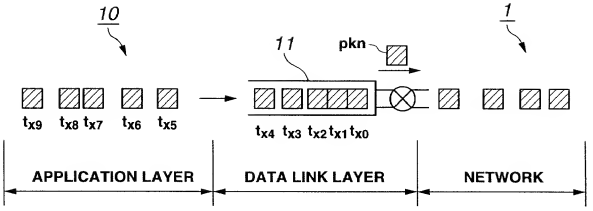
10
11
pkn
1
t_{x9} t_{x8} t_{x7} t_{x6} t_{x5}
t_{x4} t_{x3} t_{x2} t_{x1} t_{x0}
APPLICATION LAYER
DATA LINK LAYER
NETWORK

FIG.8

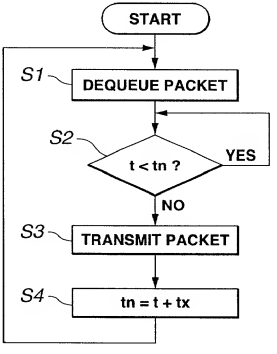
START
S1
DEQUEUE PACKET
S2
t < tn ?
YES
NO
S3
TRANSMIT PACKET
S4
tn = t + tx

FIG.9

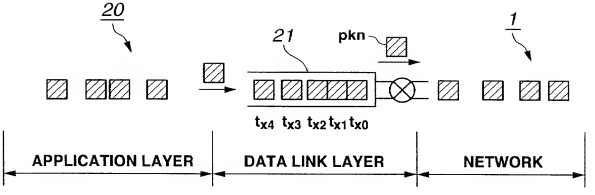

FIG.10

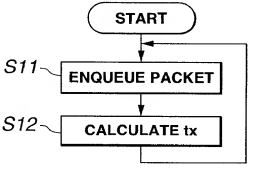

FIG.11

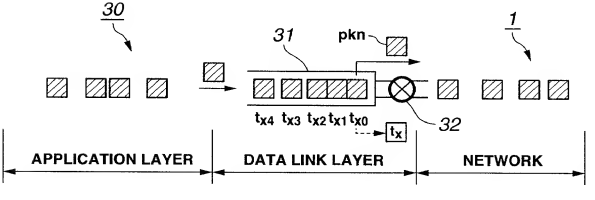

FIG.12

09764855.0117.01

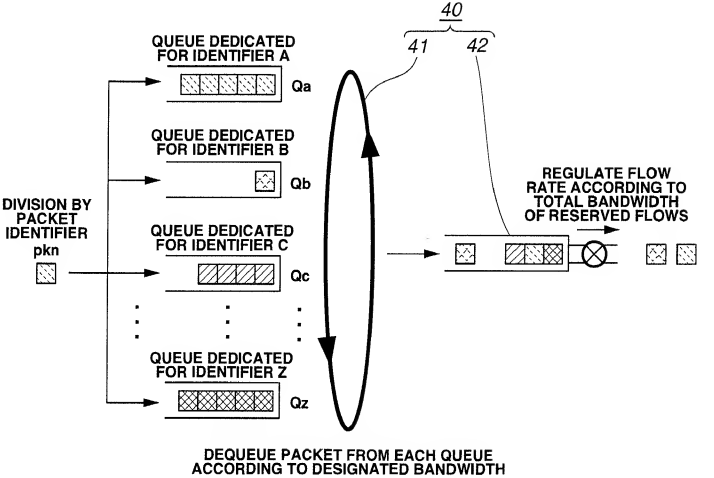

FIG.13

09753865.0112701

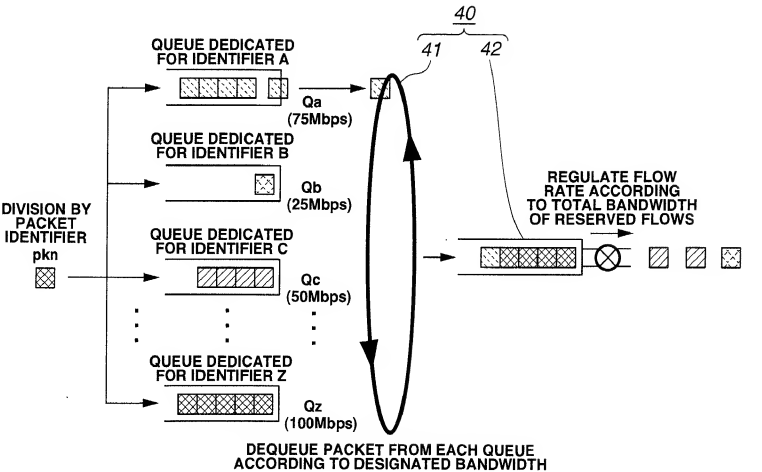

FIG.14

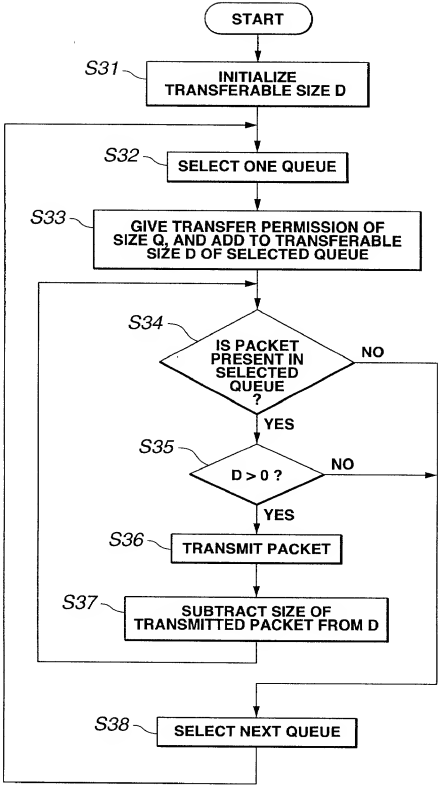
START
S31
INITIALIZE TRANSFERABLE SIZE D
S32
SELECT ONE QUEUE
S33
GIVE TRANSFER PERMISSION OF SIZE Q, AND ADD TO TRANSFERABLE SIZE D OF SELECTED QUEUE
S34
IS PACKET PRESENT IN SELECTED QUEUE ?
NO
YES
S35
D > 0 ?
NO
YES
S36
TRANSMIT PACKET
S37
SUBTRACT SIZE OF TRANSMITTED PACKET FROM D
S38
SELECT NEXT QUEUE

FIG.15

09764855 .012704

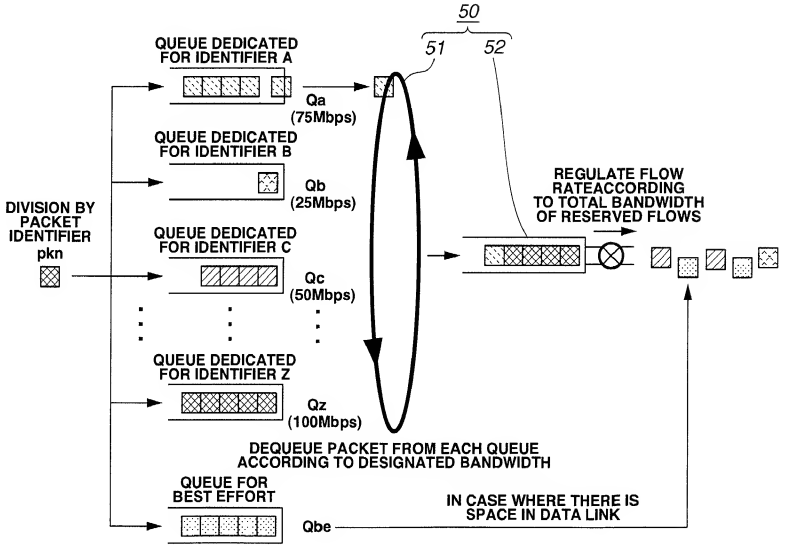

FIG.16

09764865.0112702

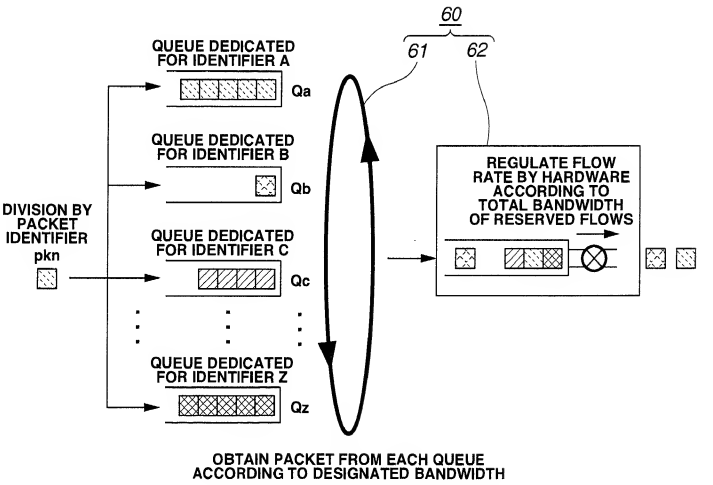

FIG.17

09754855.041701

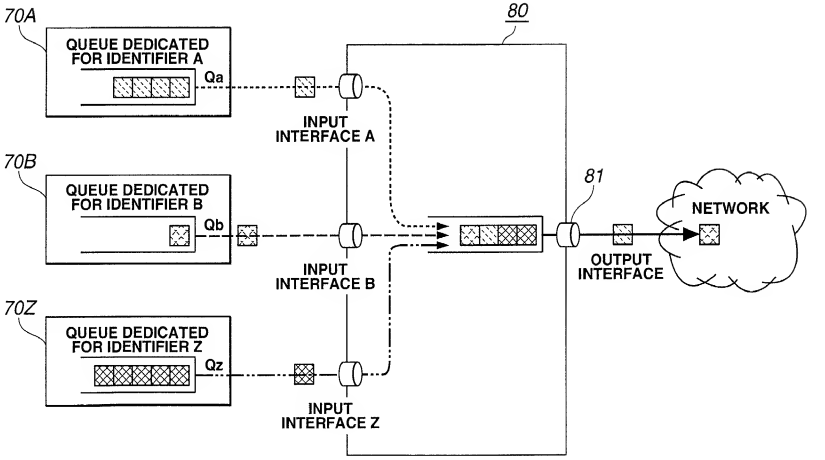

FIG.18

09761865.0117.01

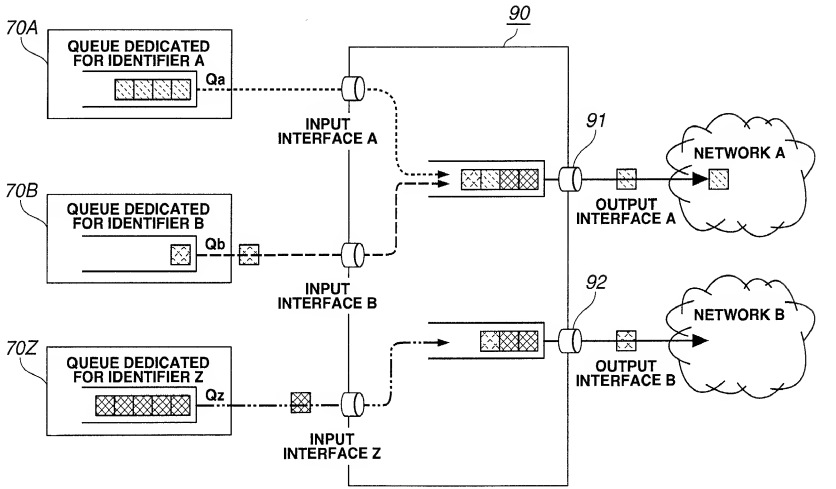

FIG.19

09761855 .0117.01

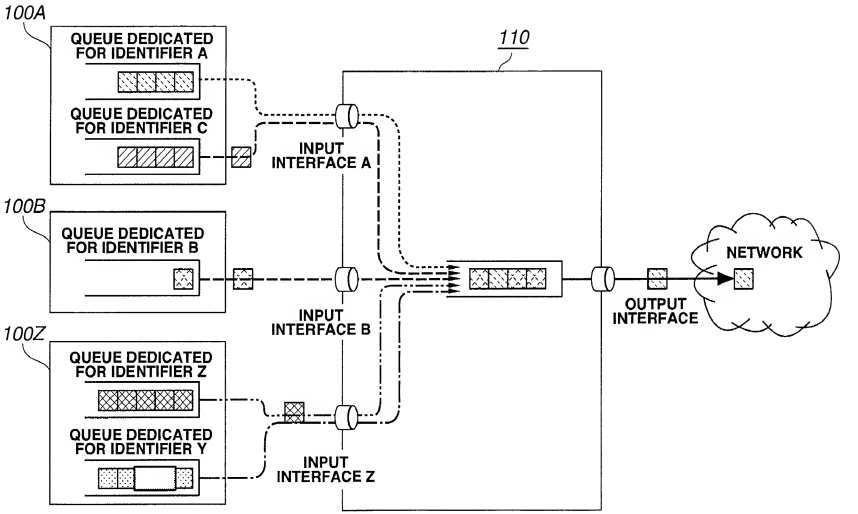

FIG.20

09764855.011701

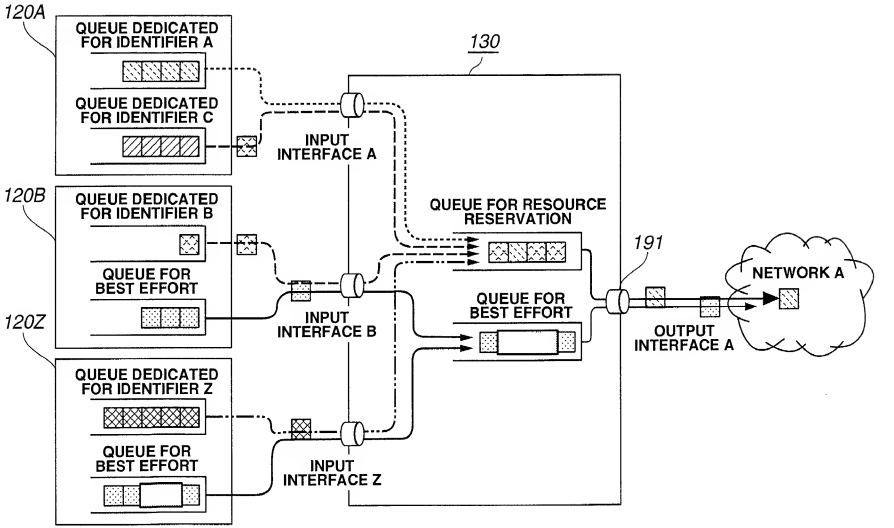

FIG.21

09764855.011701

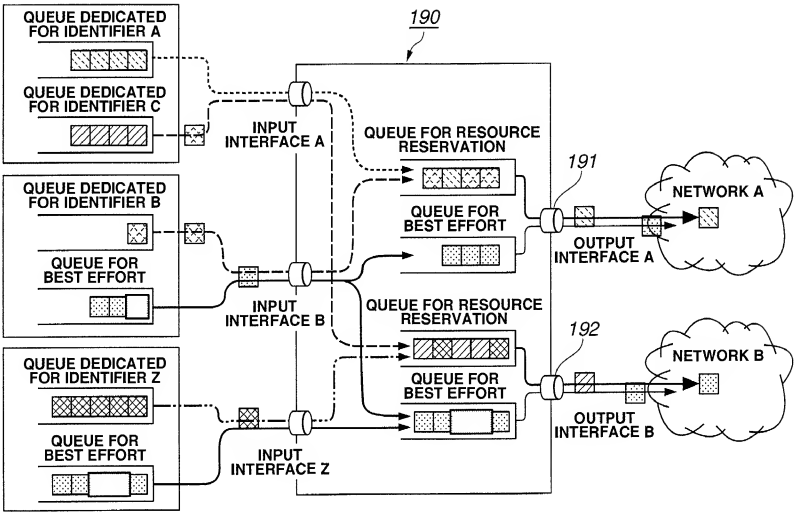

FIG.22